

FORM PTO-1449
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1533.1100001

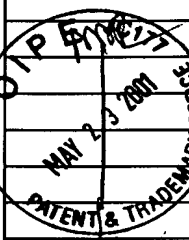
APPLICATION NO.
09/826,206

APPLICANT
John D'Elia

FILING DATE
April 5, 2001

GROUP
To be assigned

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA1	4,933,289	06/12/1990	Imai et al.	435	253.3	09/27/1989
	AB1	4,935,359	06/19/1990	Yin et al.	435	138	02/03/1988
	AC1	5,399,496	03/21/1995	Fujiwara et al.	435	320.1	08/24/1992
	AD1	5,474,924	12/12/1995	Nogami et al.	435	138	11/22/1989
	AE1	5,580,782	12/03/1996	Beppu et al.	435	252.1	112/26/1994
	AF1	6,127,156	10/03/2000	Hoshino et al.	435	189	08/19/1998
	AG1	6,127,174	10/03/2000	Tonouchi et al.	435	320.1	08/10/1999
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
mm	AL1	EP 1 076 094 A2	02/14/2001	Europe	—	—	Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mm	AR	1	Chen, B.P., and Hai, T., "Expression vectors for affinity purification and radiolabeling of proteins using <i>Escherichia coli</i> as host," <i>Gene</i> 139:73-79, Elsevier Science B.V. (1994).
	AS	1	Delic, V., et al., "Microbial Reactions for the Synthesis of Vitamin C (L-Ascorbic Acid)," in <i>Biotechnology of Vitamins, Pigments and Growth Factors</i> , Vandamme, E.J., ed., Elsevier Applied Science (London & New York) pp. 299-336 (1989).
	AT	1	Lonsdale, D.M., et al., "pFC1 to pFC7: A novel family of combinatorial cloning vectors," <i>Plant Biol. Reporter</i> 13:343-345, Transaction Periodicals Consortium (1995).

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mmr	AR	2	Messing, J., "New M13 Vectors for Cloning," <i>Methods Enzymol.</i> 101:20-78, Academic Press, Inc. (1983).
	AS	2	Payne, M.S., and Jackson, E.N., "Use of Alkaline Phosphatase Fusions To Study Protein Secretion in <i>Bacillus subtilis</i> ," <i>J. Bacteriol.</i> 173:2278-2282, American Society for Microbiology (1991).
mmr	AT	2	Simon, R., et al., "A Broad Host Range Mobilization System for <i>In Vivo</i> Genetic Engineering: Transposon Mutagenesis in Gram Negative Bacteria," <i>Bio/Technol.</i> 1:784-791, Nature Publishing Company (1983).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mm2	AR	3	Sugisawa, H., et al., "Microbial Production of 2-Keto-L-Gulonic Acid from L-Sorbose and D-Sorbitol by <i>Gluconobacter melanogenus</i> ," <i>Agric. Biol. Chem.</i> 54:1201-1209, Japan Society for Bioscience, Biotechnology, and Agrochemistry (1990).
mm2	AS	3	Wunderlich, M., and Glockshuber, R., "In Vivo Control of Redox Potential during Protein Folding Catalyzed by Bacterial Protein Disulfide-isomerase (DsbA)," <i>J. Biol. Chem.</i> 268:24547-24550, American Society for Biochemistry and Molecular Biology, Inc. (1993).
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	APPLICANT D'Elia	
	FILING DATE April 5, 2001	GROUP 1645

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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mm	AH1	5,834,231	11/10/1998	Stoddard et al.	435	42	10/24/1996
	AI1	5,989,891	11/23/1999	Liaw et al.	435	244	07/11/1997
	AJ1	6,316,231	11/13/2001	Stoddard et al.	435	138	09/10/1999
mm	AK1	6,319,699	11/20/2001	Stoddard et al.	435	138	04/13/1999

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
mm	AM1	EP 0 381 027 A	08/08/1990	Europe	—	—	Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR			RECEIVED APR 15 2002
AS			TECH CENTER 1600/2900
mm	AT	3	Urbance, J.W. et al., " Taxonomic characterization of <i>Ketogulonigenium vulgare</i> gen. nov., sp. nov. and <i>Ketogulonigenium robustum</i> sp. nov., which oxidize L-sorbose to 2-keto-L-gulonic acid," <i>Int. J. Systematic Evol. Microbiol.</i> 51:1059-1070, Society for General Microbiology (May 2001).

EXAMINER mm	DATE CONSIDERED 10/17/02
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APPLICATION NO.
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 D'Elia

FILING DATE
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>mmk</i>	AR	<u>4</u>	Claim as pending 04/09/2002 in U.S. Patent Application No. 09/684,970, Stoddard et al., as filed October 10, 2000; a divisional of U.S. Application No. 09/290,234, now U.S. Patent No. 6,319,699 (document AK1).
<i> </i>	AS	<u>4</u>	Claims as pending 04/09/2002 in U.S. Patent Application No. 09/722,320, Stoddard et al., filed November 28, 2000: a divisional of US Patent Application No. 09/393,655, now US Patent 6,316,231 (document AJ1).
<i>mmk</i>	AT	<u>4</u>	Claims as pending 04/09/2002 in U.S. Patent Application No. 09/722,514, Stoddard et al., filed November 28, 2000: a divisional of US Patent Application No. 09/393,655, now US Patent 6,316,231 (document AJ1).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mm2	AR	5	Claims as pending 04/09/2002 in U.S. Patent Application No. 09/722,427, Stoddard et al., filed November 28, 2000: a divisional of US Patent Application No. 09/393,655, now US Patent 6,316,231 (document AJ1).
	AS	5	U.S. Patent Application No. 09/826,205, Schmidt et al., filed April 5, 2001.
mm2	AT	5	U.S. Patent Application No. 09/826,191, D'Elia, J. et al., filed April 5, 2001.

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Electronic Information Disclosure Statement



(#10)

Ketogulonigenium Shuttle Vectors

Application:



09/826206

Confirmation: 2584

Applicant(s): John D'Elia

Docket

Number:

1533.1100001

Group Art

Unit:

Examiner:

search string:

(2421611 or 3043749 or 3234105 or 3907639 or 3912592 or 4876195 or 4877735 or 4892823 or 4945048 or 4960695 or 4994382 or 5082785 or 5312741 or 5344768 or 5437989 or 5541108).pn.

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■ That each item of information contained in the information disclosure statement was cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.


US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
mm	P01	2421611	1947-06-03		Gray, B.E.	195	47
	P02	3043749	1962-07-10		Huang, H.T.	195	47
	P03	3234105	1966-02-08		Motizuki et al.	195	49
	P04	3907639	1975-09-23		Makover et al.	195	36 R
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P05	3912592	1975-10-14		Makover et al.	195	31 R
P06	4876195	1989-10-24		Shirafuji et al.	435	137
P07	4877735	1989-10-31		Nogami et al.	435	138
P08	4892823	1990-01-09		Imai et al.	435	138
P09	4945048	1990-07-31		Uchihori et al.	435	105
P10	4960695	1990-10-02		Hoshino et al.	435	42
P11	4994382	1991-02-19		Ameyama et al.	435	119
P12	5082785	1992-01-21		Manning et al.	435	252.32
P13	5312741	1994-05-17		Hoshino et al.	435	42
P14	5344768	1994-09-06		Urakami, T.	435	119
P15	5437989	1995-08-01		Asakura et al.	435	190
P16	5541108	1996-07-30		Fujiwara et al.	435	252.1

Signature

Examiner Name	Date
	10/17/02

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OIPE JCB SEP 12 2002 PATENT & TRADEMARK OFFICE FORM PTO-1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1533.1100001/MAC/DJN	APPLICATION NO. 09/826,206
	APPLICANT John D'Elia	
	FILING DATE April 5, 2001	GROUP 1652

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
mm	AN1	JP 41-159	01/08/1966	Japan			X (AT13) Yes No
	AO1	JP 41-160	01/08/1966	Japan			X (AR14) Yes No
mm	AP1	JP 41-5907	03/30/1966	Japan			X (AS14) Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mm	AR	6	Altschul, S.F., et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs," Nucl. Acids Res. 25:3389-3402, Oxford University Press (1997)
	AS	6	Ameyama, M., et al., "Existence of a Novel Prosthetic Group, PQQ, in Membrane-Bound, Electron Transport Chain-Linked, Primary Dehydrogenases of Oxidative Bacteria," FEBS Lett. 130:179-183, Elsevier/North-Holland Biomedical Press (1981)
mm	AT	6	Bishop, A., et al., "Pyrroloquinoline Quinone: A Novel Vitamin?," Nutrition Rev. 56:287-293, International Life Sciences Institute (1998)

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John D'EliaFILING DATE
April 5, 2001GROUP
1652

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
mmr	AL2	SU 526,660	10/13/1976	U.S.S.R.			Yes X No
	AM2	JP 59-113896	06/30/1984	Japan			Yes X No
	AN2	EP 0 206 471 B1	12/30/1986	Europe			Yes No
	AO2	EP 0 213 591 B1	03/11/1987	Europe			Yes No
mmr	AP2	EP 0 221 707 B1	05/13/1987	Europe			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mmr	AR	2	Dekker, R.H., et al., "Covalent Addition of H ₂ O, Enzyme Substrates and Activators to Pyrrolo-quinoline Quinone, the Coenzyme of Quinoproteins," <i>Eur. J. Biochem.</i> 125:69-73, Springer-Verlag (1982)
	AS	2	Follettie, M.T., "DNA Technology for <u>Corynebacterium glutamicum</u> : Isolation and Characterization of Amino Acid Biosynthetic Genes," Ph.D. Thesis, Massachusetts Institute of Technology (1989)
mmr	AT	2	Galanos, C., et al., "A New Method for the Extraction of R Lipopolysaccharides," <i>Eur. J. Biochem.</i> 9:245-249, Springer-Verlag (1969)

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mm2	AL3	EP 0 276 832 A2 and A3	08/03/1988 (A2); 07/19/1989 (A3)	Europe			X Yes No
mm2	AM3	EP 0 278 447 B1	08/17/1988	Europe			Yes No
	AN3	JP 3-294281	12/25/1991	Japan			X Yes No
mm2	AO3	EP 0 518 136 A2 and A3	12/16/1992 (A2); 03/30/1994 (A3)	Europe			Yes No
	AP3	CN 1,081,470 A	02/02/1994	China			X Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mm2	AR	8	Helinski, D.R., et al., "Replication Control and Other Stable Maintenance Mechanisms of Plasmids," Ch. 122 in <i>Escherichia coli and Salmonella: Cellular and Molecular Biology</i> , Vol. 2, 2nd edition, Neidhardt, F.C., ed., ASM Press, Washington, D.C., pp. 2295-2324 (1996)
	AS	8	Kieslich, K., "Biotransformations," <i>Biotechnology - A Comprehensive Treatise in 8 Volumes</i> , Vol 6A:436-437, Verlag Chemie, Deerfield Beach, Florida (1984)
mm2	AT	8	Martin, C.K.A., and Perlman, D., "Conversion of L-Sorbose to 2-Keto-L-gulonic Acid by Mixtures of Immobilized Cells of <i>Gluconobacter melanogenus</i> IFO 3293 and <i>Pseudomonas</i> Species," <i>Eur. J. Appl. Microbiol.</i> 3:91-95, Springer-Verlag (1976)

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	AL4	JP 7-62673	03/14/1995	Japan			X Yes No
	AM4	JP 7-250671	10/03/1995	Japan			X Yes No
	AN4	JP 8-245702	09/24/1996	Japan			X Yes No
mm2	AO4	EP 0 832 974 A2 and A3	04/01/1998 (A2); 11/10/1999 (A3)	Europe			Yes No
mm2	AP4	WO 98/17819 A1 and A3	04/30/1998	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mm2	AR	2	Morrison, D.A., "Transformation in <i>Escherichia coli</i> : Cryogenic Preservation of Competent Cells," <i>J. Bacteriol.</i> 132:349-351, American Society for Microbiology (1977)
	AS	2	Pearson, W.R., and Lipman, D.J., "Improved tools for biological sequence comparison," <i>Proc. Natl. Acad. Sci. USA</i> 85:2444-2448, National Academy of Sciences of the USA (1988)
mm2	AT	2	Pelczar, M.J., Jr., and Reid, R.D., "Methods of Isolating Pure Cultures," in <i>Microbiology</i> , Pelczar, M.J., Jr., and Reid, R.D., eds., McGraw-Hill Book Company, Inc., New York, NY, pp. 140, first page of chapter 3, and 930 (1972).

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mm2	AL5	WO 98/33885 A1 and A3	08/06/1998	WIPO			Yes No
mm2	AM5	WO 00/15827 A2 and A3	03/23/2000 (A2); 7/6/2000 (A3)	WIPO			Yes No
	AN5						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mm2	AR	10	Qureshi, N., et al., "Location of Fatty Acids in Lipid A Obtained from Lipopolysaccharide of <i>Rhodopseudomonas sphaeroides</i> ATCC 17023," <i>J. Biol. Chem.</i> 263:5502-5504, The American Society for Biochemistry and Molecular Biology, Inc. (1988)
	AS	10	Qureshi, N., et al., "Position of Ester Groups in the Lipid A Backbone of Lipopolysaccharides Obtained from <i>Salmonella typhimurium</i> ," <i>J. Biol. Chem.</i> 258:12947-12951, The American Society of Biological Chemists, Inc. (1983)
mm2	AT	10	Qureshi, N., et al., "Complete Structural Determination of Lipopolysaccharide Obtained from Deep Rough Mutant of <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 263:11971-11976, The American Society for Biochemistry and Molecular Biology, Inc. (1988)

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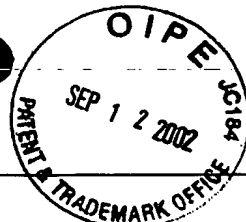
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mm2	AR	<u>11</u>	Strittmatter, W., et al., "Nontoxic Lipopolysaccharide from <i>Rhodopseudomonas sphaeroides</i> ATCC 17023," <i>J. Bacteriol.</i> 155:153-158, American Society for Microbiology (1983)
	AS	<u>11</u>	"The Genetic Improvement of Product Formation," in <i>Molecular Biology and Biotechnology</i> , Walker, J.M., and Gingold, E.B., eds., Royal Society of Chemistry, London, Great Britain, pp. 15-20, The Royal Society of Chemistry (1988)
mm2	AT	<u>11</u>	Tsukada, Y., and Perlman, D., "The Fermentation of L-Sorbose by <i>Gluconobacter melanogenus</i> . I. General Characteristics of the Fermentation," <i>Biotechnology and Bioengineering XIV</i> :799-810, John Wiley & Sons, Inc. (1972)

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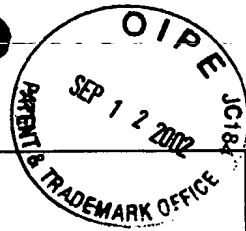
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SECOND SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT

 ATTY. DOCKET NO.
1533.1100001/MAC/DJN

 APPLICATION NO.
09/826,206

 APPLICANT
John D'Elia

 FILING DATE
April 5, 2001

 GROUP
1652

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mmr	AR	<u>12</u>	Yin, G.-L., et al., "Studies on the Production of Vitamin C Precursor 2-Keto-L-Gulonic Acid from L-Sorbose by Fermentation. I. Isolation, Screening and Identification of 2-Keto-L-Gulonic Acid Producing Bacteria," <i>Acta Microbiologica Sinica</i> 20:246-251, Weishengwu Xuebao (1980)
	AS	<u>12</u>	Yin, G.-L., et al., "Studies on Production of Vitamin C Precursor 2-Keto-L-Gulonic Acid From L-Sorbose By Fermentation, " <i>Acta Microbiologica Sinica</i> 21:185-191, Weishengwu Xuebao (1981)
mmr	AT	<u>12</u>	Zuckerman, S.H., and Qureshi, N., "In Vivo Inhibition of Lipopolysaccharide-Induced Lethality and Tumor Necrosis Factor Synthesis by <i>Rhodobacter sphaeroides</i> Diphosphoryl Lipid A Is Dependent on Corticosterone Induction," <i>Infection and Immunity</i> 60:2581-2587, American Society for Microbiology (1992)

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1	AS	<u>13</u>	English Translation of Document AS12, Yin, G.-L., et al., "Studies on Production of Vitamin C Precursor 2-Keto-L-Gulonic Acid From L-Sorbose By Fermentation," <i>Acta Microbiologica Sinica</i> 21:185-191, Weishengwu Xuebao (1981)
mm2	AT	<u>13</u>	English Translation of Japanese Patent Publication No. JP 41-159, Mochizuki, K., et al., published 01/08/1966 (Document AN1)

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<i>mm2</i>	AR	<u>14</u>	English Translation of Japanese Patent Publication No. JP 41-160, Mochizuki, K., et al., published 01/08/1966 (Document A01)
<i> </i>	AS	<u>14</u>	English Translation of Japanese Patent Publication No. JP 41-5907, Mochizuki, K., et al., published 03/30/1966 (Document AP1)
<i>mm2</i>	AT	<u>14</u>	Dialog File 351, Accession No. 77-48308Y/27, Derwent WPI English language abstract for U.S.S.R. Patent Publication No. 526,660 (Document AL2)

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<i>mm2</i>	AR	<u>15</u>	Dialog File 351, Accession No. 95-155907/21, Derwent WPI English language abstract for Chinese Patent Publication No. CN 1,081,470 A (Document AP3)
<i> </i>	AS	<u>15</u>	Dialog File 347, Accession No. 04958071, JPO & JAPIO English language abstract for Japanese Patent Publication No. JP 7-250671 (Document AM4)
<i>mm2</i>	AT	<u>15</u>	Dialog File 351, Accession No. 4053025, Derwent WPI English language abstract for JP 59-113896 (Document AM2)

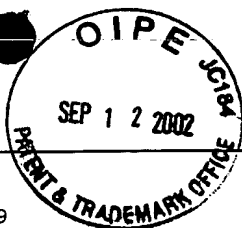
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<i>mm</i>	AR	<u>16</u>	Dialog File 351, Accession No. 7580312, Derwent WPI English language abstract for EP 0 276 832 A2 (Document AL3)
<i> </i>	AS	<u>16</u>	Dialog File 351, Accession No. 8924746, Derwent WPI English language abstract for JP 3-294281 (Document AN3)
<i>mm</i>	AT	<u>16</u>	Dialog File 351, Accession No. 10242604, Derwent WPI English language abstract for JP 7-67673 (Document AL4)

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<i>mmr</i>	AR	<u>17</u>	Dialog File 351, Accession No. 10985312, Derwent WPI English language abstract for JP 8-245702 (Document AN4)
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